

## Claims

- [c1] What is claimed is:
1. A method for handling timers in a wireless communication system, the method comprising:
- starting a Timer\_Poll\_Periodic timer for a Radio Link Control Acknowledged Mode (RLC AM) entity;
- performing a reset procedure for the RLC AM entity; and
- restarting the Timer\_Poll\_Periodic timer in response to the Timer\_Poll\_Periodic timer expiring prior to completion of the reset procedure.
- [c2] 2. The method of claim 1 further comprising restarting the Timer\_Poll\_Periodic timer in response to the reset procedure.
- [c3] 3. The method of claim 1 further comprising maintaining a value of the Timer\_Poll\_Periodic timer and maintaining operation of the Timer\_Poll\_Periodic timer in response to the reset procedure.
- [c4] 4. The method of claim 1 further comprising:
- re-establishing the RLC AM entity; and
- restarting the Timer\_Poll\_Periodic timer after re-establishment of the RLC AM entity.
- [c5] 5. The method of claim 1 further comprising:
- re-establishing the RLC AM entity; and
- maintaining a value of the Timer\_Poll\_Periodic timer and maintaining operation of the Timer\_Poll\_Periodic timer after re-establishment of the RLC AM entity.
- [c6] 6. The method of claim 1 further comprising:
- starting a Timer\_Status\_Periodic timer; and
- restarting the Timer\_Status\_Periodic timer in response to the Timer\_Status\_Periodic timer expiring prior to the completion of the reset procedure.
- [c7] 7. The method of claim 6 further comprising restarting the Timer\_Status\_Periodic timer in response to the reset procedure.

- [c8] 8.The method of claim 6 further comprising maintaining a value of the Timer\_Status\_Periodic timer and maintaining operation of the Timer\_Status\_Periodic timer in response to the reset procedure.
- [c9] 9.The method of claim 6 further comprising:  
re-establishing the RLC AM entity; and  
restarting the Timer\_Status\_Periodic timer after re-establishment of the RLC AM entity.
- [c10] 10.The method of claim 6 further comprising:  
re-establishing the RLC AM entity; and  
maintaining a value of the Timer\_Status\_Periodic timer and maintaining operation of the Timer\_Status\_Periodic timer after re-establishment of the RLC AM entity.
- [c11] 11.The method of claim 1 further comprising:  
receiving a Service Data Unit (SDU) and starting a Timer\_Discard timer associated with the SDU prior to the reset procedure;  
maintaining a value of the Timer\_Discard timer if the Timer\_Discard timer expires prior to the completion of the reset procedure;  
stopping the Timer\_Discard timer if the SDU is discarded in response to the reset procedure; and  
restarting the Timer\_Discard timer, or maintaining a value of the Timer\_Discard timer and maintaining operation of the Timer\_Discard timer if the SDU is not discarded in response to the reset procedure.
- [c12] 12.The method of claim 11 further comprising stopping the Timer\_Discard timer if the SDU is discarded and if a condition for triggering the reset procedure is detected.
- [c13] 13.The method of claim 11 further comprising:  
re-establishing the RLC AM entity; and  
stopping the Timer\_Discard timer after re-establishment of the RLC AM entity.
- [c14] 14.The method of claim 1 further comprising:  
starting a Timer\_Poll timer;

maintaining a value of the Timer\_Polltimer if the Timer\_Polltimer expires prior to the completion of the reset procedure; and  
stopping the Timer\_Polltimer in response to the reset procedure.

[c15] 15.The method of claim 14 further comprising stopping the Timer\_Polltimer if a condition for triggering the reset procedure is detected.

[c16] 16.The method of claim 14 further comprising:  
re-establishing the RLC AM entity; and  
stopping the Timer\_Polltimer after re-establishment of the RLC AM entity.

[c17] 17.The method of claim 1 further comprising:  
starting a Timer\_Poll\_Prohibit timer; and  
stopping the Timer\_Poll\_Prohibittimer in response to the reset procedure.

[c18] 18.The method of claim 17 further comprising stopping the  
Timer\_Poll\_Prohibittimer if a condition for triggering the reset procedure is  
detected.

[c19] 19.The method of claim 17 further comprising:  
re-establishing the RLC AM entity; and  
stopping the Timer\_Poll\_Prohibittimer after re-establishment of the RLC AM  
entity.

[c20] 20.The method of claim 1 further comprising:  
starting a Timer\_Status\_Prohibit timer; and  
stopping the Timer\_Status\_Prohibittimer in response to the reset procedure.

[c21] 21.The method of claim 20 further comprising stopping the  
Timer\_Status\_Prohibittimer if a condition for triggering the reset procedure is  
detected.

[c22] 22.The method of claim 20 further comprising:  
re-establishing the RLC AM entity; and  
stopping the Timer\_Status\_Prohibittimer after re-establishment of the RLC AM  
entity.

